

Internal Application No
PCT/EP 03/50292

A. CLASSIF IPC 7	CO7D487/04 CO7D519/00 A61K31	/53 A61P35/00	
According to	International Patent Classification (IPC) or to both national classification	fication and IPC	
B. FIELDS	SEARCHED 6-10-10-10-10-10-10-10-10-10-10-10-10-10-	ction cymhole)	
Minimum doo IPC 7	cumentation searched (classification system followed by classific CO7D	awir symbolsy	
Documentati	on searched other than minimum documentation to the extent that	at such documents are included in the fields se	arched
Electronia de	ata base consulted during the International search (name of data	base and, where practical, search terms used	)
	ternal, CHEM ABS Data, PAJ		•
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
X	DATABASE WPI Derwent Publications Ltd., Lond AN 1998-011934 XP002261586		1–12
	-& JP 09 255681 A (TAISHO PHARM cited in the application abstract page 4-6	1 CO)	
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X Fur	ther documents are listed in the continuation of box C.	Patent family members are listed	l in annex.
Special c     "A" docum     cons     "E" earlier     filing     "L" docum     which     citali     "O" docum     othe     "P" docum     "P" docum	nent defining the general state of the art which is not idered to be of particular relevance of document but published on or after the international date nent which may throw doubts on priority claim(s) or his cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means	"T" later document published after the in or priority date and not in conflict wit cited to understand the principle or t invention  "X" document of particular relevance; the cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the cannot be considered to involve an idocument is combined with one or ments, such combination being obviin the art.  "&" document member of the same pater	claimed invention of the considered to to tocument is taken alone claimed invention inventive step when the nore other such docu-
Date of the	e actual completion of the international search	Date of mailing of the international so	
	26 April 2004	Authorized officer	
Name and	d mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (431–70) 340–3016	Grassi, D	



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ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Citation of document, with indication, where appropriate, of the relevant passages	Treprair to Califi Tw.
DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1977:43663 XP002261584 abstract; example 148 & YONEDA ET AL.: JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL COMMUNICATIONS, vol. 16, 1976, pages 658-659,	1-12
DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1974:120872 XP002261585 abstract; example 190 & YONEDA ET AL.: JOURNAL OF HETEROCYCLIC CHEMISTRY, vol. 11, no. 1, 1974, pages 83-85,	1-12
WO 02/20525 A (LIM KAH LEONG ;YEO SU LING (SG); TAN YIN HWEE (SG); WANG HAISHAN () 14 March 2002 (2002-03-14) claim 1	1-12
US 6 174 889 B1 (COCKERILL GEORGE STUART ET AL) 16 January 2001 (2001-01-16) column 1-2; claim 1	1–12
DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1977:139991 XP002277970 abstract; examples 141-145 & YONEDA ET AL.: JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANSACTIONS 1, vol. 22, 1976, pages 2398-2402,	1-12
DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1976:421301 XP002277971 abstract; examples 155-159 & YONEDA ET AL.: JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANS. 1, vol. 7, 1976, pages 713-715,	1-12
	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1977:43663 XP002261584 abstract; example 148 & YONEDA ET AL.: JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL COMMUNICATIONS, vol. 16, 1976, pages 658-659,  DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1974:120872 XP002261585 abstract; example 190 & YONEDA ET AL.: JOURNAL OF HETEROCYCLIC CHEMISTRY, vol. 11, no. 1, 1974, pages 83-85,  WO 02/20525 A (LIM KAH LEONG; YEO SU LING (SG); TAN YIN HWEE (SG); WANG HAISHAN () 14 March 2002 (2002-03-14) claim 1  US 6 174 889 B1 (COCKERILL GEORGE STUART ET AL) 16 January 2001 (2001-01-16) column 1-2; claim 1  DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1977:139991 XP002277970 abstract; examples 141-145 & YONEDA ET AL.: JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANSACTIONS 1, vol. 22, 1976, pages 2398-2402,  DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1976:421301 XP002277971 abstract; examples 155-159 & YONEDA ET AL.: JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANSACTIONS 1, vol. 22; 1976, pages 2398-2402,  DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1976:421301 XP002277971 abstract; examples 155-159 & YONEDA ET AL.: JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANS. 1,



## INTERNATIONAL SEARCH REPORT

Interna al Application No
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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Independent of the Ma
Category *	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1992:633685 XP002277972 abstract; examples 135,136 & SMIRNOVA ET AL.: KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII,	1-12
	vol. 2, 1992, pages 219-224,	
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1976:17293 XP002277973 abstract; examples 160-162 & YONEDA ET AL.: BULL. CHEM. SOC.,	1-12
X	vol. 48, no. 10, 1975, pages 2884-2887,  DATABASE CA 'Online!	1-12
A	CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1976:4913 XP002277974 abstract; examples 163-177 & YONEDA ET AL.: CHEM. PHARM. BULL., vol. 23, no. 9, 1975, pages 2001-2009,	
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1975:443279 XP002277975 abstract; examples 179-183 & YONEDA ET AL.: SYNTHESIS, vol. 3, 1975, pages 177-179,	1-12
<b>X</b>	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1974:491479 XP002277976 abstract; examples 184-189 & YONEDA ET AL.: J. HET. CHEM., vol. 11, no. 2, 1974, pages 271-273,	1-12
Х	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1973:466325 XP002277977 abstract; examples 197-200 & YONEDA ET AL.: TET. LETT., vol. 17, 1973, pages 1577-1580,	1-12
	-/	



Internated Application No
PCT/EP 03/50292

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Tresevant to Genili No.
X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Database accession no. 1971:405866 XP002277978 abstract; examples 201-204 & YONEDA ET AL.: TET. LETT., vol. 13, 1971, pages 851-854,	1-12
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## INTERNATIONAL SEARCH REPORT



Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of Invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claim : 1(part)

Compounds according to claim 1 in which m and n are 0 (the group of compounds is not unitary but was searched witout extra effort).

2. Claim : 1(part)

Compounds according to claim 1 comprising at least one substituent R4 or R5 (the group of compounds is not unitary but can be searched witout extra effort).



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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 09255681	Α	30-09-1997	NONE			
JP 07041479	Α .	10-02-1995	NONE			
WO 0220525		14-03-2002	AU	9353801		22-03-2002
10 0220020			WO	0220525		14-03-2002
		•	CA	2421718	8 A1	14-03-2002
US 6174889	B1	16-01-2001	AT	249458	3 T	15-09-2003
02 01/4003	DI	10 01 2001	AU	3443997	7 A	09-02-1998
			BR	9710359	) A	17-08-1999
			DE	69724789	9 D1	16-10-2003
			EP	0912570	) A1	06-05-1999
			JP	200051444!	5 T	31-10-2000
			NO	99012	4 A	11-03-1999
			CA	226006		22-01-1998
			CN	123018		29-09-1999
			CZ	990008		16-06-1999
			WO	980243		22-01-1998
			EP	130411		23-04-2003
			HR	97037		31-08-1998
			ID	1940		09-07-1998
			KR	200002381		25-04-2000
			PL	33122		05-07-1999
			TR	990004		21-04-1999
	•		US	672372		20-04-2004
			ZA	970614	6 A	11-01-1999